

- Membrane for gas mixt. sepn. - consists of plane porous sheets with sloped ribs increasing oxygen content of permeate.

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The element comprises two semi-permeable membranes (5) and two porous drain sheets (2) with plane contact surfaces and rows of parallel ribs (3) on the opposed sides. To increase the selectivity, the ribs are sloped relative to the sheet plane of symmetry.

Preferably, the ribs are parallel with the diagonal of the rectangular element (1) or at an angle $\phi = \arctan(R-r)/(a-r)$ to the axis of the truncated cone element, where R is the element radius and r is the collector radius, and a is the distance from the edge of the centre of the element. Flow hole (4) for the mixture (6) decreases the drainage aerodynamic resistance. The 500 x 300 mm membrane element has PVTMS (sic) membranes and milplast sheets. The air input pressure is 1 atmos. and the air mixture pressure on the permeate side is 0.3 or 0.2 atmospheres. The maximum separation factor is 3.45 at 0.3 atm.

USE/ADVANTAGE - Used in chemical, petrochemical industries, etc. for semi-permeable membrane cleaning of gaseous mixts. The design decreases the drainage aerodynamic resistance. Bul.48/30.12.91
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